



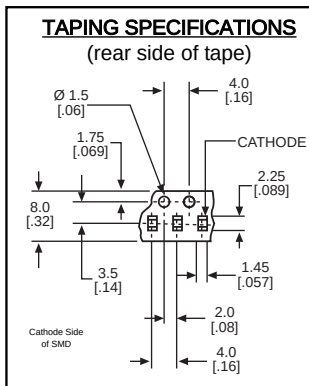
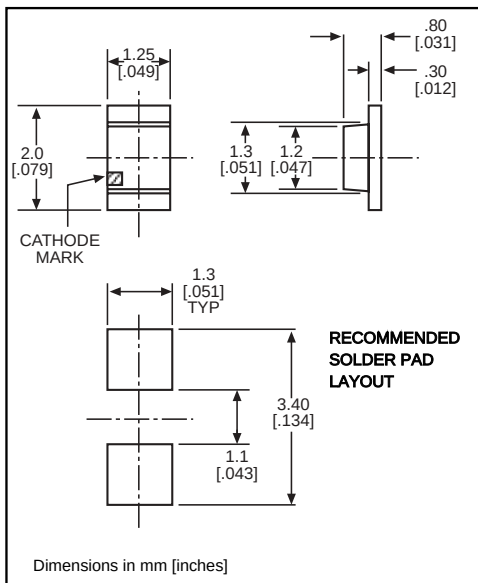
Surface Mount LED

0805 Type Package High Intensity LEDs

Dialight

597-3xxx-4xx
597-5x11-4xx
597-5202-4xx

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*ORDERING INFORMATION

597-3xxx-4xx

packaging option

02	20 pieces on tape
07	7" reel, 4000 pcs/reel

PART NO.*	COLOR
597-3003-4xx	AlInGaP Red
597-3212-4xx	Orange
597-3222-4xx	Yellow
597-5111-4xx	Red
597-5202-4xx	Orange
597-5311-4xx	Green
597-5411-4xx	Yellow

Features

- Very bright light output
- Highly efficient AlInGaP die
- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 8mm tape, 7" reels (meets EIA-481-1 standard)
- Compatible with Dialight's Optopipe™ Series light pipes

ABSOLUTE MAXIMUM RATINGS (T _A =25°C)	AlInGaP Red	Orange	Yellow	Red	Orange	Green	Yellow
	-3003	-3212	-3222	-5111	-5202	-5311	-5411
Power Dissipation (mW)	81	81	81	57.5	70	70	70
Forward Current (mA)	30	30	30	25	25	25	25
Derating (mA/°C) From 25°C	.43	.43	.43	.36	.36	.36	.36
Peak Current (mA)	100	100	100	60	60	60	60
Pulse width = 1 μs							
Operating Temperature (°C)	-40/+85	-40/+85	-40/+85	-30/+85	-30/+85	-30/+85	-30/+85
Storage Temperature (°C)	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100
Soldering Profile	280°C peak 3 seconds			240°C peak 5 seconds			

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T _A =25°C)		AlInGaP Red	Orange	Yellow	Red	Orange	Green	Yellow
		-3003	-3212	-3222	-5111	-5202	-5311	-5411
Luminous Intensity (mcd)	Min.	16	16	16	7	2.2	3.8	7
	Typical	50	65	65	11.7	3.7	6.4	11.7
Peak Wavelength (nm)	Typical	630	609	594	660	605	560	570
λ Peak								
Viewing Angle (2θ ^{1/2})	Typical	156°	156°	156°	140°	140°	140°	140°
Forward Voltage (V)	Typical	1.9	1.9	1.9	1.7	2.2	2.1	2.1
	Max.	2.4	2.4	2.4	2.3	2.8	2.8	2.8
Reverse Current (μA)	Max	100	100	100	100	100	100	100
(V _R = 5V)								

θ_{1/2} is the off axis angle at which the luminous intensity is half the axial luminous intensity